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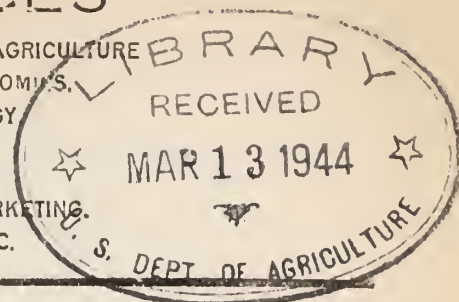


# COTTON LITERATURE

## SELECTED REFERENCES

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BUREAU OF AGRICULTURAL ECONOMICS, WASHINGTON, D. C.



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COTTON LITERATURE is compiled mainly from material received in the Library of the U. S. Department of Agriculture.

Copies of the publications listed herein can not be supplied by the Department except in the case of publications expressly designated as issued by the U. S. Department of Agriculture. Books, pamphlets, and periodicals mentioned may ordinarily be obtained from their respective publishers or from the Secretary of the issuing organization. Many of them are available for consultation in public or other libraries.

PRODUCTIONGeneral

Howard, Albert. The improvement of cotton production. Empire Cotton Growing Review, v.9, no.2, Apr.1932, p.89-108. illus. tables. (Published by P. S. King and Son, Ltd., 14, Great Smith St., London, S.W.1, England)

To be continued.

"The foundation of a new Research Institute at Indore in 1924 provided an opportunity for breaking new ground in a number of directions relating to the production of raw cotton. In the first place, the best method of applying science to crop-production could be considered. In the second place, the improvements which add materially to the yield per acre could be separated from those which merely concern minor matters. Lastly, attention could be paid to the most effective ways of getting the results obtained at an experiment station taken up by the growers. The present paper deals very briefly with all these topics."

The following subjects are discussed: The Institute and its organization; the best methods of applying science to the cotton plant; the improvements which really matter; improvements in agronomy--improvement of the variety--soil factors which limit the yield.

Symond, J.E., and Williams, T.L. Cotton development, 1930-31--Tamale investigational station. Gold Coast, Dept. of Agriculture, Bul.23 (Year-book 1930), p.166-174. tables. charts. (Published by Government Printer, Accra, Gold Coast)

The report includes the following sections: I.Result of small-bulk trials with selected strains. II.Further selection and breeding work. III.Physiology and disease. IV.Other varieties tested during the season. V.Trials with artificial manures. VI.Cotton in rotation trial.



Botany

Barritt, N.W. The differentiation of the epidermal layer in cotton seed and its relation to ginning cut-turn. Empire Cotton Growing Review, v.9, no.2, Apr.1932, p.126-131. illus. (Published by P.S.King and Son, Ltd., 14, Great Smith St., London, S.W.1, England)

A review of research on the subject.

"Fluctuations in lint weight per seed are accounted for, and support the theory of surface nutrition of the lint hairs."-Summary.

Robbins, Wilfred W. The botany of crop plants. A text and reference book. 3d ed., revised. Philadelphia, P. Blakiston's son and co., inc., [1931] 639 p. illus.

Cotton: p.483-500. Bibliography at end of chapter.

Sakostschikoff, A.P., and Korscheniowsky, G.A. Der entwicklungsgang des baumwollhaares. Faserforschung, v.9, no.4, Mar.15,1932, p.249-284. illus. (Published at Leipzig, Germany)

"Literaturverzeichnis": p.284.

The course of development of cotton fibers.

Genetics

Brabham, H.K. Cotton variety tests, 1931. Experiment, Ga., 1932. Sp. tables. (Ga.Agr. Exp.Sta.Circ.100)

Tables give yield, lint percentage, number of bolls per pound of seed cotton, staple length, and value for varieties tested at each experiment station.

Brown, C.H. The purity chequer in cotton-breeding. Empire Cotton Growing Review, v.9. no.2, Apr.1932, p.119-125. charts. (Published by P.S.King and Son, Ltd., 14, Great Smith St., London, S.W.1, England)

"The use of a target diagram, plotting the measurements of single plants for any two pairs of characters, as a test for the purity of a cotton variety, was first described by Dr. Balls in 'The Cotton Plant in Egypt'...The use of this device, known as a Purity Chequer, has been resumed at Giza." Methods used are described.

Cock, O.F. Cotton improvement through type selection with special reference to the Alaca variety. Washington, U.S.Govt.print.off., 1932. 62 p. illus. (U.S.Dept. of agriculture. Tech. bul.302)

Cotton production in the eastern belt. Cotton Digest, v.4, no.29, Apr.30, 1932, p.11-12. (Published at Houston, Tex.)

Report of the Cotton Production Committee of the Atlantic Cotton Association adopted at the ninth annual convention at Charlotte, N.C., Apr. 21, 1932.

Factors responsible for improvement in quality in the Piedmont section are suggested as follows: breeding of varieties of desired staple lengths; recognition of need of better quality; cooperation of extension service agencies.

Also in Cotton Trade Journal, v.12, no.16, Apr.23, 1932, p.5.

Cowan, G. Work of the Tamale investigational station, season 1929 and 1930. Gold Coast, Dept. of Agriculture, Bul.23 (Yearbook 1930), p.282-308. tables. (Published by Government Printer, Accra, Gold Coast)

Cotton trials and selection work: p.282, 286-287.

Extension of Banilla cotton in the Khandesn division. Poona Agricultural College Magazine, v.23, no.4, Feb.1932, p.252-255. (Published at Poona City, India)

Forbes, R. H. Directives de la culture cotonnière en A.O.F. [Afrique-Occidentale française] Coton et Culture Cotonnière, v.6, no.3, Dec.1931, p.173-186. (Published by L'Agence Générale des Colonies et la Comité d'Encouragement aux Recherches Scientifiques Coloniales, Paris, France)

Aims of cotton culture in French West Africa. Discusses varieties grown.

Kearney, Thomas H., and Harrison, George J. Pollen antagonism in cotton. Journal of Agricultural Research, v.44, no.3, Feb.1, 1932, p.191-226. illus., tables. (Published by U.S.Department of Agriculture, Washington, D.C.)

"Literature cited": p.224-226.

"Emasculated flowers of Pima and of upland

cotton, pollinated with approximately equal quantities of pollen of both types, have shown a marked degree of selective fertilization... Application of either pollen separately showed that these cottons are highly compatible, as fertilization of the flowers of either Pima or upland cotton has been effected almost or quite as readily by the unlike as by the like pollen...

"The only explanation that seems tenable is that the presence of the like pollen induces a reaction in the stigmatic tissues of such nature as to render them less suitable for the development of the unlike pollen...

"The term 'pollen antagonism' is suggested in order to distinguish it from the selective fertilization observed in other plants and attributed to differential growth rate of the pollen tubes conditioned by specific genes determining the rates of growth."-Summary.

Ludwig, C.A. The germination of cottonseed at low temperatures. Journal of Agricultural Research, v.44, no.4, Feb.15, 1932, p.367-380. illus., tables. (Published by U.S.Department of Agriculture, Washington, D.C.)

"The minimum temperature for the germination of cottonseed is approximately 12°C....Seeds that do not germinate at a given low temperature will often remain viable as long as two months or more under the unfavorable conditions."-Summary.

Seidemann, A. État actuel et premiers résultats des travaux d'amélioration exécutés en Égypte sur le coton et le blé par le Dr.B.Kajanus. Bulletin de l'Union des Agriculteurs d'Égypte, v.30, no.229, Feb.1932, p.65-74. (Published at Cairo, Egypt)

Present state and first results of improvement work carried on in Egypt on cotton and wheat by Dr.B.Kajanus.

Szymanek, Joseph. Observations caryologiques supplémentaires sur quelques Gossypium. Comptes Rendus de l'Académie des Sciences, Paris, v.194, no.11, Mar.14,1932, p.1011-1013. (Published by Gauthier-Villars et Cie, Quai des Grands-Augustins, 55,Paris,France)

Supplementary karyological observations on some



## Gossypium.

## Bibliographical footnotes.

Velloso, U. O algodao e seu melhoramento. Campo, v.3, no.2, Feb.1932. p.55-58. illus. (Published at Rio de Janeiro, Brazil)  
Cotton and its improvement.

Agronomy

Buie, T.S. Maintaining plant food at a normal level. Commercial Fertilizer, v.44, no.4, Apr.1932, p.12-15. (Published at Atlanta, Ga.)

Cost of producing cotton must be lowered. Cotton Trade Journal, v.12, no.14, Apr.9, 1932, p.3. (Published at New Orleans, La.)  
Urges use of fertilizer.

Ferris, E.B. Essentials of cheap cotton production. Mississippi Co-op News, v.3, no.9, Apr.1932, p.5. (Published at 236 1/2 E.Capitol St., Jackson, Miss.)

Quotes Professor C.T.Ames: "To sum up, the essentials are as follows: Use only good cotton lands; a variety especially adapted to the locality; the judicious use of a properly balanced fertilizer; a good stand, two to three stalks per foot; and this followed by frequent shallow cultivations."

Fertilizers reduce cotton root-rot severity. American Fertilizer, v. 76, no.8, Apr.9, 1932, p.28. (Published at Philadelphia, Pa.)

Jordan, Harvie. Solution of profitable farming lies in producing acre yields whose sales price exceeds production cost. Southern Cultivator, v.89, no.23, Apr.1, 1932, p.2. (Published by the Constitution Publishing Co., Box 1731, Atlanta, Ga.)

Suggests planting and cultural methods for cotton growers of Georgia.

Potash demonstrations in the southern states. American Fertilizer, v.76, no.9, Apr.23, 1932, p.19-20. (Published at Philadelphia, Pa.)

Cotton: p.19.

Progress in growing cotton for cellulose content.

Textile World, v.81, no.11, Mar.12,1932, p.945.

illus. (Published by Bragdon, Lord and Nagle Co., Inc., 330 West 42d St., New York, N.Y.)

"Cultivation of the cotton plant for its cellulose content, rather than for its lint value, made further progress last year, but efforts in this direction, although promising, are still in the experimental stage."

Further notes on tests made by Frank K. Cameron and Nicholas W. Dockery at the University of North Carolina, Chapel Hill.

Stewart, A.D. Cotton improvement work in Mississippi makes progress. Bureau Farmer, v.7, no. 8, Apr.1932 (Miss.section), p.14, (Published at Fort Wayne, Ind.)

"It is evident that through the work of the Smith-Hughes teachers and the county agents, considerable progress has been made in the improvement of quality." Urges formation of one-variety communities.

Use of fertilizer should prove profitable. Bureau Farmer, v.7, no.8, Apr.1932 (Miss. section), p.10. (Published at Fort Wayne, Ind.)

Gives formulas for fertilizer with and without potash and cost of same for use on Mississippi cotton land.

### Diseases

Bryan, Mary K. An atypical lesion on cotton leaves caused by *Bacterium malvacearum*. Phytopathology, v.22, no.3, Mar.1932, p.263-264. illus. (Published by American Phytopathological Society, Washington, D. C.)

Ehrlich, John, and Wolf, F.A. Areolate mildew of cotton. Phytopathology, v.22, no.3, Mar.1932, p.229-240. (Published by American Phytopathological Society, Washington, D. C.)

Ezekiel, Walter N., and Taubenhaus, J.J. Leaf temperatures of cotton plants with *Phymatotrichum* root rot. Science, v.75, no.1945, Apr.8,1932, p.391-392. (Published by the Science Press. Lan-

caster, Pa.)

Contribution No.177, Technical Series, Texas Agricultural Experiment Station.

"Leaves from plants wilted from *Phymatotrichum* root rot were as much as 6.5°F. warmer than air temperature, while leaves from normal plants were usually cooler than air temperature. Series of measurements made with mercury thermometers and by thermocouples showed that in July and in September, 1930, leaves from root-rot cotton plants averaged about 3°F. warmer than leaves from normal plants."-Summary.

Hopkins, J.C.F. Some diseases of cotton in Southern Rhodesia. Empire Cotton Growing Review, v.9, no.2, Apr.1932, p.109-118. (Published by P.S.King and Son, Ltd., 14, Great Smith St., London, S.W.1, England)

References: p.118.

Describes the following diseases: Angular leaf spot; internal boll disease and other boll rots; leaf spots; "sore shin"; and miscellaneous diseases.

Lugard, W.J. La frisolée du cotonnier. Agriculture et Elevage au Congo Belge, v.6, no.4, Mar.19,1932, p.40-42. (Published at 34, Rue de Stassart, Brussels, Belgium)

Leaf curl of cotton.

History and damage in Nigeria and in the Anglo-Egyptian Sudan.

## Insects

King, W.V. Feeding punctures of Mirids and other plant-sucking insects and their effect on cotton. Washington, U. S. Govt. print office., 1932. 12 p. illus. (U.S.Dept. of agriculture. Tech.bul.296)

"Experiments were begun in 1927 and carried through three years, at Tallulah, La...

"The experiments with the 10 species of plant-sucking insects, some of which do not feed naturally on cotton, have shown that nearly all individuals cause a reaction in the tissues of cotton stems and leaf petioles similar to that produced by the cotton flea hopper, *Psallus seriatus*. This is taken to indicate that hopper damage is due to injected substances normally present in the insects and toxic to the plant, rather than to a transmissible disease."-Summary.



Mimeur. Les insectes du cotonnier au Maroc. Association Cotonnière Coloniale, v.30, no.6, Apr. 1932, p.40-42. (Published at 53, Rue de Chateaudun, Paris IX, France)  
Insects of cotton in Morocco.

### Farm Management

Cobb, C.A. More acres, better pay. Progressive Farmer and Southern Ruralist (Carolinas-Virginia ed.), v.47, no.8, Apr.15-30, 1932, p.8. illus. (Published at Raleigh, N.C.)

Urges use of improved equipment to lower cost of cotton production. Reports tests with different implements, made over a period of three years under the guidance of experiment station at Stoneville, Miss.

Also in Progressive Farmer and Southern Ruralist (Georgia-Alabama ed.), v.47, no.8, Apr.15-30, 1932, p.8.

Darrow, W.H. Farming cotton with safety. Southern Agriculturist, v.62, no.4, Apr.1932, p.5. illus. (Published at Nashville, Tenn.)

Description of farm in Texas whose owner "is doing in his own way what farm papers and agricultural colleges have recommended for years... drawing an income from...other crops as well as from cotton."

Farmers' opinions as to why they changed their cotton acreage. Agricultural Economics Extension, no.6, Apr.1932, p.4-5. Multigraphed. (Published by Extension Service, U.S.Department of Agriculture, Washington, D.C.)

Extracts from survey made by T.B.Manny.

"Farmer opinion in not enthusiastic toward substitute cash crops for cotton but instead seeks a solution...by increasing acreages planted to food and feed crops."

Kyle, E.J. If I were a cotton farmer. Cotton and Cotton Oil News, v.33, no.14, Apr.2,1932, p.16. (Published at 3116-18 Commerce St., Dallas, Tex.)

Outlines "outlook" for the cotton farmer and plan for living on the farm, which includes the following suggestions: Not plant over 50 per cent of cultivated land to cotton; plant cotton only on the best land.



## Cooperation in Production

Farmers will grow one-variety cotton. Oklahoma Farmer-Stockman, v.45, no.6, Mar.15,1932, p.128. (Published by Oklahoma Publishing Co., Oklahoma City, Okla.)

Gives plans of several communities in Oklahoma to raise one variety this year.

## PREPARATION

### Ginning

Adams, Orville. Ginners lose millions by low rates for ginning. Cost study shows bankruptcy threatens thousands of ginners. Farmers to suffer greater losses. Cotton and Cotton Oil News, v.33, no.17, Apr.23,1932, p.3-4, 13-14. tables. (Published at 3116-18 Commerce St., Dallas, Tex.)

Adams, Orville. Texas ginners hold annual meeting. Oil Miller and Cotton Ginner, v.50, no.2, Apr.1932, p.5-6. (Published at 161 Spring St., N.W., Atlanta, Ga.)

Meeting of the Texas Ginners Association at Dallas, Texas., Apr.6-7, 1932.

Adams, Orville. Types of engines for gins. Cotton and Cotton Oil News, v.33, no.14, Apr.2,1932, p.28-29. illus. (Published at 3116-18 Commerce St., Dallas, Tex.)

"A survey of power plants suitable for gin power."

Bennett, Charles A. Federal cotton ginning laboratory at Stoneville, Mississippi. Cotton and Cotton Oil News, v.33, no.14, Apr.2, 1932, p 6. illus., diagrs. (Published at 3116-18 Commerce St., Dallas, Tex.)

Descriptions of the laboratory and of machinery used in the investigations.

Clapp, Alston, sr. At the crossroads. Cotton and Cotton Oil News, v.33, no.16, Apr.16,1932, p.3-4. illus. (Published at 3116-18 Commerce St., Dallas Tex.)

"In the cotton industry in the United States it

is the privilege of the ginner to be the connecting link between the producer and the manufacturer who uses his product...By the very nature of things, the gin is a manufacturing plant where the first step in the conversion of raw cotton into cloth takes place."

Key, Ernest D. Some belting experiences in gins and cotton oil mills. Cotton and Cotton Oil News, v.33, no.14, Apr.2,1932, p.36. illus. (Published at 3116-18 Commerce St., Dallas, Tex.)

Mauk, Raymond S. Cotton gin fires. Cotton and Cotton Oil News, v.33, no.14, Apr.2,1932, p.33. (Published at 3116-18 Commerce St., Dallas, Tex.)  
Suggestions for the prevention of gin fires.

Ousley, Clarence. The dignity of cotton ginning. Cotton and Cotton Oil News, v.33, no.14, Apr.2, 1932, p.5. (Published at 3116-18 Commerce St., Dallas, Tex.)

Some recollections of the ginning industry.

Sykes, E.L. Continental gin company embarks on second century of service. Cotton and Cotton Oil News, v.33, no.14, Apr.2,1932, p.8. illus. (Published at 3116-18 Commerce St., Dallas, Tex.)

Whitney's first cotton gin. Fibre and Fabric, v.85, no.2460, Mar.26,1932, p.6. illus. (Published by the Wade Publishing Co., 465 Main St., Kendall Square, Cambridge, Mass.)

"The Museum of Science and Industry in Chicago has recently completed a replica of Whitney's first cotton gin. This working model is to be exhibited in the textile sequence in the museum building." Descriptions of other exhibits in the textile sequence are also included.

### Baling

Anderson, Clayton and co. The modern cotton package. Houston, Tex. [1932?] [16]p. illus.

Describes the high density bale produced by the Clayton Press and compares it with the square bale as it goes through the marketing process.

MARKETING

General

Cardot, J., and Braemer, P. Les principaux produits d'exportation de l'Indochine. I. Produits végétaux. Paris, Agence économique de l'Indochine, 1931. 136 p. illus. (Indo-China. Gouvernement générale de l'Indochine. Publications de l'Agence économique. No. 28)

Cotton: p. 114-123. Describes briefly the cotton production and marketing of Indo-China. Statistics of exports are included.

Cox, A.B. Essentials of efficient cotton marketing. Cotton Digest, v. 4, no. 25, Apr. 2, 1932, p. 9. (Published at Houston, Tex.)

The essentials mentioned are: An effective selling organization and force in the cotton using markets of the world; a continuous liquid market; returns to farmer based on merits of his cotton; cost of performing the essential services enumerated.

Goldman, J.L. President J.L. Goldman's address. Cotton Digest, v. 4, no. 25, Apr. 2, 1932, p. 1, 22, 24. (Published at Houston, Tex.)

Address at 21st annual meeting of the Texas Cotton Association, Houston, Tex., Apr. 1-2, 1932.

Surveys the marketing situation and the work of the Texas Cotton Association.

Also in Cotton and Cotton Oil News, v. 33, no. 14, Apr. 2, 1932, p. 26-27, 39.

Also in Cotton Trade Journal, v. 12, no. 13, Apr. 2, 1932, p. 2.

Schoffelmayer, Victor H. A co-ordinated Texas cotton program. Cotton Trade Journal, v. 12, no. 14, Apr. 9, 1932, p. 4, 6. (Published at Cotton Exchange Bldg., New Orleans, La.)

Need of program for the "restoration of Texas' world prestige as a producer of quality cotton." Urges domestic consumption.

Todd, John A. World's cotton consumption and stocks. A half-yearly stocktaking. Manchester Guardian Commercial, v. 24, no. 613, Mar. 19, 1932, p. 205-206. tables, chart. (Published at the Guardian Bldg., Manchester, England)

"The fundamental fact of the whole situation is that consumption is recovering very slowly."



Demand and Competition

Clark, David. The textile industry--past and present. Southern Textile Bulletin, v.42, no.6, Apr.7,1932, p.7, 42-43. (Published by Clark Publishing Co., 18 West Fourth St., Charlotte,N.C.)

Paper presented at meeting of Dyers,Bleachers, Finishers and Mercerizers' Division of Southern Textile Association, Charlotte,N.C., Apr.2,1932.

Brief history and present condition of the cotton textile industry in the United States.

Cotton employers and weavers' wages. Will the Uniform list be scrapped?--Impossible for Lancashire to compete. Textile Mercury and Argus, v.86, no.2243, Mar.11,1932, p.231,233. (Published at 41, Spring Gardens, Manchester, England)

Criticisms of the Uniform List.

Cotton operatives and the Uniform list. Textile Mercury and Argus, v.86, no.2244, Mar.18,1932, p.261. table. (Published at 41, Spring Gardens, Manchester, England)

Opinions of certain manufacturers on the Uniform List, "which is the basis of calculating the amount to be paid in wages for every piece of cloth woven in Lancashire." Table lists changes in the Uniform List 1899-1929.

Crocker, W.R. The Japanese population problem: the coming crisis. London, George Allen & Unwin Ltd., [1931] 240 p. tables.

The effect of the problem on the textile industry and imports of raw cotton is discussed: p.165-169, 181, 207.

Reviewed in Textile Weekly, v.9, no.211, Mar. 18,1932, p.57.

Donovan, Howard. Production of Japanese cotton industry in 1931. Mills belonging to the Japan cotton spinners' association reported a production for 1931 slightly in excess of that of 1930, but exports of yarn and piece goods declined--Record exports of American cotton to Japan. Commerce Reports, no.15, Apr.11,1932, p.108-111. tables. (Published by Bureau of Foreign and Domestic Commerce, U.S.Department of Commerce, Washington, D.C.)



Flake, W.C. Cotton manufacturing in India. Mid-Pacific Magazine, v.44, no.4, Apr.1932, p.339-341. (Published at Honolulu, Hawaii)

Indian cotton industry. Suggested revival of excise duty. Indian Textile Journal, v.42, no. 497, Feb.29,1932, p.159-160. (Published at Military Square, Meadows St., Fort, Bombay, India)

Copy of letter published by the Calcutta Import Trade Association for the information of members regarding an excise duty on piece goods manufactured in India.

The Indian textile industry: annual reviews by Bombay businessmen. Indian Textile Journal, v.42, no.497, Feb.29,1932, p.152-154. (Published at Military Square, Meadows St., Fort, Bombay, India)

Includes addresses by members of the Bombay Mill-owners' Association at the annual general meeting Feb.23,1932.

Lancashire's future in the Indian market... Textile Mercury and Argus, v.86, no.2244, Mar.18, 1932, p.266. table. (Published at 41, Spring Gardens, Manchester, England)

Report of lecture by A.R.Burnett-Hurst at meeting of the Royal Statistical Society in London, Mar.15, 1932, on "Lancashire and the Indian market."

"An attempt to get at the root of Lancashire's troubles in the native market, and the conclusions... The dominant consideration...is the price factor."

Loper says industry is building basis for ultimate prosperity. Textile World, v.81, no.16, Apr.16, 1932, p.1394. table. (Published by Bragdon, Lord and Nagle Co., Inc., 330 West 42d St., New York, N.Y.)

Address by Ralph E.Loper at the Textile Forum of the National Association of Cotton Manufacturers, Boston, Mass., Apr.15,1932.

Discusses "conditions in the mills of Canada as well as those in the northern and southern sections of this country."

Also in Southern Textile Bulletin, v.42, no.8, Apr.21,1932, p.11,23.

Also in American Wool and Cotton Reporter, v.46, no.16, Apr.21,1932, p.24,29-30.

Manchester's views on Indian cloth trade. Indian Textile Journal, v.42, no.497, Feb.29,1932, p.155-156. tables. (Published at Military Square, Meadows St., Fort, Bombay, India)

"The annual report for the year 1931 of the India Section of the Manchester Chamber of Commerce is reproduced below in part. The statistics as shown below strikingly indicate the great decline in Indo-Lancashire cotton trade for the past few years."- Editorial note.

Maultsbury, Ralph C. Remarkable growth of knitting industry in the south. Textile World, v.81, no.15, Apr.9,1932, p.1304-1305. tables. (Published by Bragdon, Lord and Nagle Co., Inc., 330 West 42d St., New York,N.Y.)

Oldest mill in the south began manufacturing cotton knit underwear and hosiery in 1869.

More-looms-per-weaver agreement. Final settlement expected this week--The new terms. Textile Mercury and Argus, v.86, no.2243, Mar.11,1932, p.232. tables (Published at 41, Spring Gardens, Manchester, England)

Gives the main points from the terms agreed upon by the joint committee representing the operatives and employers in the manufacturing section of the Lancashire cotton industry.

More than "wear cotton" needed. Texas Weekly, v.8, no.14, Apr.2,1932, p.4-5. (Published at 2500 McKinney Ave., Dallas,Tex.)

"We must stimulate the consumption of other things besides raw materials, and we must restore the world market for our raw materials." Shows that "Texas consumed the equivalent of less than 6 per cent of the cotton it produced, and that the South's consumption was less than 7 per cent of its production."

Paper from raw cotton. Technical News Bulletin, no.179, Mar.1932, p.27-28. (Published by Bureau of Standards, U.S.Department of Commerce, Washington,D.C.)

"The use of raw staple cotton for paper making hinges largely on the economic factors, and probably the only way the present unfavorable cost ratio [to textile cotton wastes] could be overcome would be by the production of the staple cotton on a generally mechanized basis."

Robiczek, H.Alexander, and Leonhardt, Reré. Russia's fabric dumping may affect world markets. Textile World, v.81, no.14, Apr.2, 1932, p.1172-1173. illus., tables. (Published by Bragdon, Lord and Nagle Co., Inc., 330 West 42d St., New York, N.Y.)

Statistics include value of cotton machinery in operation, textile machinery imported, production of cotton goods, and cotton acreage, 1925-1931.

Roos, Kurt. Une nouvelle matière première cellulosique: Yucca--coton européen. Revue Générale des Matières Plastiques, v.7, no.7, July 1931, p391-403. illus., tables. (Published at 61, Avenue Jean-Jaurès, Paris, France)

To be continued.

A new cellulosic raw material: yucca, a European cotton.

"A review of the work done in Germany on the possibilities of yucca as a substitute for cotton. (Copied complete from Chemical Abstracts, v.26, 1932, p.295)" - U.S. Institute for Textile Research, Bulletin, v.2, no.3, Mar. 1932, p.15.

Russian cotton plan this year sets ginnings at 2,326,-000 bales. Cotton Digest, v.4, no.25, Apr. 2, 1932, p.20. (Published at Houston, Tex.)

Abstract of summary prepared by the U.S. Department of Commerce, giving plan as carried out by the Union Cotton Procuring Organization, a government concern.

Sea Island cotton. Tropical Agriculture, v.9, no. 4, Apr. 1932, p. 93-94. (Published by the Imperial College of Tropical Agriculture, Trinidad, B.W.I.)

Discusses reasons for decline in the industry.

Sloan, George A. Non-cooperative minority dwindling says Sloan. Textile World, v.81, no.18, Apr.30, 1932, p.1538. (Published by Bragdon, Lord and Nagle Co., Inc., 330 West 42d St., New York, N. Y.)

Address to students of the University of North Carolina, Chapel Hill, Apr. 28, 1932.

"The avenues of cooperative endeavour in the



cotton industry are becoming clearly recognized." Stresses need of cooperation among mill executives for progressive practices, such as elimination of night work for women and children, and adoption of accurate cost systems.

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Kime, P. H. Mills require more long staple cotton. Southern Textile Bulletin, v.42, no.9, Apr. 28, 1932, p.22-23. (Published by Clark Publishing Co., 18 West Fourth St., Charlotte, N. C.)

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Niemeyer, A. World alterations in textile raw material supplies. Textile Recorder, v.49, no.589, Apr. 15, 1932, p.32-33. (Published at 121, Deansgate, Manchester, England)

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Todd, John A. Cotton statistics, World's crops--American and Egyptian. Empire Cotton Growing Review, v.9, no.2, Apr. 1932, p.136-142. tables, charts. (Published by P. S. King and Son, Ltd., 14, Great Smith St., London, S.W.1, England)

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Dalzell, F. R. Houston, port, market--a great concentration point. Cotton Digest, v. 4, no. 25, Apr. 2, 1932, p.6. (Published at Houston, Tex.)

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Ocean freight forwarder relieves exporter of details. Cotton Digest, v.4, no.25, Apr.2,1932, p.13. (Published at Houston, Tex.)

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"The seller is in a position through the services and facilities of the spot cotton broker to display his cotton before many buyers, and at the same time, the buyer is afforded an opportunity to shop around selecting approximately the qualities of cotton he is most in need of, or can use to best advantage."

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Market Geography

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The author concludes that "The cotton-manufacturing industry of New England presents a complex problem in industrial geography in view of increased competition from the Southern States and changed conditions within the industry itself which have taken place since 1914. Geographic influences, so basic in the early development of the industry, do not possess the power they formerly had,--at present, economic factors play the most important role...

"New England surrendered its leadership in national cotton manufacturing... to the cotton-growing states in 1925. Its chances of regaining that eminence are slight."-p.219.

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ness...I submit the following brief history, dealing with cotton only."

Farm board saved the cotton co-ops. Oklahoma Farmer-Stockman, v.45, no.7, Apr.1.1932, p.167, 169, 181. illus. (Published by Oklahoma Publishing Co., Oklahoma City, Okla.)

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Review of cooperative marketing in Mississippi since 1915, including the cotton cooperatives.

Talmadge, Eugene. The evils of government in business. Cotton Trade Journal, v.12, no.15, Apr.16,1932, p.7. (Published at New Orleans, La.)

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Report of meeting of the American Cotton Cooperative Association held in New Orleans, La., Mar.3-5, 1932.

UTILIZATIONFiber, Yarn and Fabric Quality

Balls, W. L. Rapid estimation of water-content in undisturbed soil and in bales of cotton. Nature, v.129, no.3257, Apr. 2, 1932, p.505-506. (Published by Macmillan and Co., St. Martin's St., London, W.C.2, England)

British cotton industry research association. Report of the twelfth annual general meeting... 1931. [Manchester, 1931] 16 p.

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Emley, W. E. Measurement of thickness of textiles and similar materials. American Society for Testing Materials, Proceedings, v.31, pt. 1, 1931, p.608-611. (Published at 1315 Spruce St., Philadelphia, Pa.)

"If various kinds of materials are to be measured... extreme care is required to match each material with its proper measuring device. While the situation is in the present chaotic condition it would seem opportune to try to adopt one single design of gage to be used by all industries... A standard gage for use in measuring the thickness of any material might therefore be specified as follows: The anvil shall be plane and not less than 1 1/2 in. in diameter. The presser foot shall be plane to 0.00005 in., parallel to the anvil within 0.0002 in., have a diameter of 1.1284 in.  $\pm 0.0005$  in., and the total weight of the foot and the movable parts connected therewith shall be 2 lb.  $\pm 0.001$  lb. These tolerances are based empirically on good machine shop practice."

Emley, Warren E. Thickness of textiles and similar materials. Limitation of variety of thickness gages to facilitate measurement of textiles. Commercial Standards Monthly, v.8, no.9, Mar.1932, p.265-267. illus. (Published by Bureau of Standards, U.S. Department of Commerce, Washington, D.C.)

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Ermen, W.F.A. The testing of cotton for the degree of mercerization. *Textile Colorist*, v.54, no.640, Apr.1932, p.227-229. (Published at the Woolworth Bldg., 233 Broadway, New York, N.Y.)

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"The present paper describes a form of the ericometer, developed in connection with work on flax fibres."-Introduction and summary.

Szymanek, J., and Reehrich, O. Examen technologique de la fibre de quelques cotonniers expérimentés au Soudan Français et de leurs hybrides. *Coton et Culture Cotonnière*, v.6, no.3, Dec.1931, p.187-198. illus. (Published by L'Agence Générale des Colonies et la Comité d'Encouragement aux Recherches Scienti-



fiques Coloniales, Paris, France)

Technological examination of the fiber of several cottons studied in the French Sudan and of their hybrids.

### Technology of Manufacture

Abraham, Henri. Peut-on-maintenir une salle à température constante? Comptes Rendus de l'Académie des Sciences, Paris, v.193, no.26, Dec.28,1931, p.1402-1404. (Published by Gauthier-Villars et Cie, Quai des Grands-Augustins, 55, Paris, France)

Maintenance of constant temperature room.

"Attempts were made to maintain the temperature of a cellar at 6° above its normal winter temperature for a period of several months. The control device consisted of a metal tube filled with toluene, the expansion of the liquid being arranged to deform a flexible metallic membrane controlling the electrical heating device. A system of artificial ventilation was found to be necessary to prevent variation in temperature with height from the floor. The temperatures were measured and recorded by means of a platinum resistance thermometer. Over a period of three months it was found that the mean daily temperatures had been maintained constant to within a thousandth of a degree. On certain days variations approaching a hundredth of a degree were recorded within a few minutes. These accidental variations were traced to variations in the atmospheric pressure."--Textile Institute, Journal, v.23, no.3, Mar. 1932, p.A141.

Automatic loom at Sheffield school. American Wool and Cotton Reporter, v.46, no.12, Mar.24, 1932, p.55. illus. (Published by Frank P. Bennett and Co., Inc., 530 Atlantic Ave., Boston, Mass.)

Demonstration of Northrop Automatic Loom at Sheffield Scientific School, Yale University, "in connection with a scientific study of the human problems of technological progress which is being conducted by the Yale Institute of Human Relations."

Bennett, William. The processing and problems of sewing and knitting yarns. Avoiding loss in weight. Bleaching and dyeing. Textile American, v.57, no.2, Feb.1932, p.49-51.62. (Published at 440-442 Old South Bldg., Boston, Mass.)

Relates to cotton yarns.

Blackshaw, Squire. Good practice and bad in cotton carding. Textile World, v.81, no.15, Apr. 9, 1932, p.1314,1320. (Published by Bragdon, Lord and Nagle Co., Inc., 330 West 42d St., New York, N.Y.)

Blackshaw, Squire. Modern methods of cotton opening. Methods for mixing natural forces utilized for opening. Textile American, v.57, no.4, Apr.1932, p. 50-51. (Published at 440-442 Old South Bldg., Boston, Mass.)

"Boltonian." Causes of defective cotton laps. Practical remedies. Textile American, v.57, no.2, Feb.1932, p.19,44-45. (Published at 440-442 Old South Bldg., Boston, Mass.)

Combined temperature and humidity recorder. Instrument World, v.4, no.47, Mar. 1932, p.218. illus. (Published at 72-78, Fleet St., London, E.C.4, England)  
For use in connection with the manufacture of textiles.

Cotton mixes...One-process pickers...Card clothing.. Roller covering discussed by S.T.A. at Raleigh. Textile World, v.81, no.17, Apr.23,1932, p.1474-1475. (Published by Bragdon, Lord and Nagle Co., Inc., 330 West 42d St., New York, N. Y.)

Meeting of the Eastern Carolina Division of the Southern Textile Association at Raleigh, N.C., Apr. 15, 1932

Also in Southern Textile Bulletin, v.42, no.8, Apr.21,1932, p.3-8,27.

Also in American Wool and Cotton Reporter, v.46, no.17, Apr.28,1932, p.27-29.

Crawshaw, Frank C. Bleaching, dyeing and finishing. Developments in the dyeing and finishing of textiles. Textile Mercury and Argus, v.86, no. 2244, Mar.18, 1932, p.268. illus. (Published at

41, Spring Gardens, Manchester, England)

Extracts from a recent lecture to the Society of Dyers and Colourists, England.

Describes developments in textile machinery.

Description of new dye jig. American Silk Journal, v.51, no.4, Apr.1932, p.62. illus. (Published by Clifford and Lawton, Inc., 34 N. Crystal St., East Stroudsburg, Pa.)

This machine is especially adapted for light silks, cotton and silk, fine cotton fabrics, and rayon.

Fowle, Edwin D. "Typp." A basis for numbering all yarns. Textile World, v.81, no.17, Apr. 23, 1932, p.1470-1473. tables. (Published by Bragdon, Lord and Nagle Co., Inc., 330 West 42d St., New York, N.Y.)

"The accompanying yarn-number conversion table... appeared originally in the booklet known as 'Simplex Tables'...The unit must be given a distinctive name...We suggest the name 'typp' (pronounced 'tip'), which is compounded from the initials of the words 'thousand yards per pound.'"

Furry, Margaret S. Some physical properties of starch pastes which affect their stiffening power on fabrics. Washington, U. S. Govt. print. off., 1932. 18 p. illus., tables. (U.S. Dept. of agriculture. Tech. bul. 284)

"The study shows that the stiffness of a sized fabric depends on the penetrating and coating powers of starch pastes, and these factors in turn depend in a general way on the consistency of the pastes. The findings indicate also that the size of the swollen starch granules bears a definite relation to the penetrating and coating powers of the starch pastes. Further evidence is given that the consistency of starch pastes depends on the size of the swollen starch granules."-Summary.

Gatewood, W. Boyd. Texas blankets warm the nation. Texas Weekly, v.8, no.14, Apr.2,1932, p.7-8. (Published at 2500 McKinney Ave., Dallas, Tex.)

Description of the Houston Textile Mill and the manufacture of cotton blankets.



Gt. Britain. Home office. Departmental committee. Report...on dust in card rooms in the cotton industry. London, H. M. Stationery office, 1932. 96 p. illus., tables.

Attention is called "to the importance of immediate further exploration of the new avenue of research opened up by the discovery of Histamine in cotton dust and of attacking the problem of dust removal in the processes preparatory to carding by improvements of the blowing room machinery and by exerting collective influence on cotton growing countries to improve ginning. At present it is impossible to assure an employer who has adopted any or all of the means now available for improving the ventilation of his card room that the card room operatives in his mill will avoid entirely the ill effects of inhaling the dust."-Conclusion.

Gives also a history of carding processes and a brief description of cotton cultivation and ginning.

Reviewed in the Lancet, v.222, no.5664, Mar.19, 1932, p.630-632.

Hagan, Thomas H. Observations in European cotton mills. Southern Textile Bulletin, v.42, no.9, Apr. 28, 1932, p.3,27. (Published by Clark Publishing Co., 18 West Fourth St., Charlotte, N.C.)

Address at Textile Forum of National Association of Cotton Manufacturers, Boston, Mass., Apr. 15, 1932.

Discusses differences between American and European mills in regard to management and machinery.

Abstract in Textile World, v. 81, no. 18, Apr. 30, 1932, p.27.

Also in American Wool and Cotton Reporter, v.46, no.17, Apr. 28, 1932, p.26, 30.

Harris, Robert H. Dyeing skein yarn. For ingrain hosiery. Suggestions for dyeing cotton and rayon skeins. Must be evenly dyed. Shades matched and fast color. New type of equipment. American Wool and Cotton Reporter, v.46, no.14, Apr. 7, 1932, p. 34-35. (Published by Frank P. Bennett and Co., Inc., 530 Atlantic Ave., Boston, Mass.)

Paper presented at winter meeting of Southeastern Section of the American Association of Textile Chemists and Colorists at Columbus, Ga.

High drafting. Textile Recorder, v.49, no.589, Apr. 15, 1932, p.34, charts. (Published at 121, Deansgate, Manchester, England)

To be continued.

High drafting at the mule. Textile Manufacturer, v.58, no.687, Mar.1932, p.102-103. illus. (Published by Emmott and Co., Ltd., 65, King St., Manchester, England)

"Some possibilities of the application of high-draft mechanism in mule spinning and advantages which might be gained."

How to prevent neps in card sliver. Cotton, v.96, no.4, Apr.1932, p.82-84. (Published by W.R.C. Smith Publishing Co., Atlanta, Ga.)

Letters to the editor. Give experiences in reply to query.

Lancashire cotton corporation ltd. Official report concerning a test of automatic looms, etc., made in 1931. Textile Institute, Journal, v.23, no.3, Mar.1932, p.P25-P42. tables. (Published at 16, St.Mary's Parsonage, Manchester, England)

Also in Textile Mercury and Argus, v.86, no. 2246, Apr.1,1932, p.301.

Abstract in Textile Recorder, v.49, no.589, Apr.15,1932, p.40.

Martin, H. D. Colored cotton goods napping. Textile Colorist, v.54, no.640, Apr.1932, p.236, 374. (Published at the Woolworth Bldg., 233 Broadway, New York, N.Y.)

Meeting of dyers, bleachers, finishers and mercerizers. Southern Textile Bulletin, v.42, no.6, Apr.7,1932, p.32-43. (Published by Clark Publishing Co., 18 West Fourth St., Charlotte, N.C.)

Meeting of section of Southern Textile Association, Charlotte, N.C., Apr. 2, 1932.

Includes the following papers: Chemical control of warp mercerizing, by B.F. Mitchell: p.38-39. (Also in American Wool and Cotton Reporter, v.46, no.14, Apr.7,1932, p.47-48; and in Textile World, v.81, no.16, Apr.16,1932, p.1402).-Skrinkage in piece goods, by George P. Feindel: p.36-37,39. (Also in American Wool and Cotton Reporter, v.46, no.15, Apr.14,1932, p.11-12,14)

Report of meeting also in Textile World, v.81, no.16, Apr.16,1932, p.1397-1398.

Mullin, Charles E. Friction marks in piece-dyed cotton fabrics. Textile World, v.81, no.18, Apr. 30, 1932, p.25. (Published by Bragdon, Lord and Nagle Co., Inc., 330 West 42d St., New York, N.Y.)  
Suggests test for dyestuffs used.

A multiple-feed trunk system for cotton. Opening and cleaning installations. Dobson and Barlow Limited, Bolton. Textile Manufacturer, v.58, no.687, Mar. 1932, p.100-101. illus., diagrs. (Published by Emmott and Co., Ltd., 65, King St., Manchester, England)

"New mechanism is applied to feed three or more finishing scutchers from one or more opening machines, and has other applications. The blowing-room machines are regulated with precision by mechanical or electrical control arrangements."

Also in Textile Mercury and Argus, v.86, no.2243, Mar. 11, 1932, p.237, 253. illus.

Murray system of converting pickers to single process. Cotton, v.96, no.4, Apr. 1932, p.56, 58. illus. (Published by W.R.C. Smith Publishing Co., Atlanta, Ga.)

Preparation of grey cotton yarn. Textile Mercury and Argus, v.86, no.2244, Mar. 18, 1932, p.266. (Published at 41, Spring Gardens, Manchester, England)

Summary of recent lecture of L.J. Mills to the London Section of the Textile Institute, England.

The recognized amount of "condition" is given as 7.8 per cent or  $8 \frac{1}{3}$  per cent of regain.

Raw-stock oiling and other card-room problems considered at Columbia. Textile World, v.81, no.18, Apr. 30, 1932, p.1536-1537. (Published by Bragdon, Lord and Nagle Co., Inc., 330 West 42d St., New York, N.Y.)

Report of meeting of South Carolina Carders' Section of the Southern Textile Association, at Columbia, S. C., Apr. 22, 1932.

Also in Southern Textile Bulletin, v.42, no.9, Apr. 28, 1932, p.4-9, 24-25.



Stott, Philip. Careful choice of dyestuffs essential for faster cotton-rayon mixtures. Textile World, v.81, no.16, Apr.16,1932, p.1396. table. (Published by Bragdon, Lord and Nagle Co., Inc., 330 West 42d St., New York, N.Y.)

The wet treatment and dyeing of cotton knit goods. Cotton, v.96, no.4, Apr.1932, p.107,109. (Published by W.R.C. Smith Publishing Co., Atlanta, Ga.)

The recommendations represent the opinions and practices of the author.

Yarn twist in fabric dyeing. Textile Mercury and Argus, v.86, no.2245, Mar.25, 1932, p.293. (Published at 41, Spring Gardens, Manchester, England)

### Technology of Consumption

Federal specifications board proposes textile test methods. Textile World, v.81, no.11, Mar.12, 1932, p.942-944. illus. (Published by Bragdon, Lord and Nagle Co., Inc., 330 West 42d St., New York, N.Y.)

To be continued.

"Details of a proposed method for testing textile materials purchased by the various departments and establishments of the United States Government."

McCarty, S. C. Roadbed covered with cotton sheets before surfacing. Engineering News-Record, v.108, no.10, Mar.10,1932, p.355. illus. (Published by McGraw-Hill Publishing Co., Inc., 330 West 42d St., New York, N.Y.)

Describes road built near Gonzales, Tex.

Standard specifications for tolerances and test methods for certain light and medium cotton fabrics. A.S.T.M. designation: D274-29. American Society for Testing Materials, Proceedings, v.31, pt.1,1931, p.1061-1062. (Published at 1315 Spruce St., Philadelphia, Pa.)

A new test procedure for tear resistance is added to the standard published in 1930.

Tentative specifications for chafer tire fabrics. A.S.T.M. designation: D316-31T. American Society for Testing Materials, Proceedings, v.31, pt.1, 1931, p.1000-1004. tables. (Published at 1315 Spruce St., Philadelphia, Pa.)

Tentative specifications for cotton rubber-lined fire hose for public and private fire department use. A.S.T.M. designation: D296-31T. American Society for Testing Materials, Proceedings, v.31, pt.1, 1931, p.903-920. diags. (Published at 1315 Spruce St., Philadelphia, Pa.)

Williams, J. Guilfoyle. The user's and retailer's view of textiles. Textile Manufacturer, v.58, no. 687, Mar.1932, p.89-91. (Published by Emmott and Co., Ltd., 65, King St., Manchester, England)

Abstract of lecture to the British Association of Managers of Textile Works, Feb.27, 1932.

"Discusses points and cloth qualities which are considered by the retailer and consumer in buying home-trade or similar textiles."

Also in Textile Weekly, v.9, no.209, Mar.4, 1932, p.15-17.

#### SEED AND SEED PRODUCTS

Abell, M. H. Delinting seed in an English oil mill. Oil Miller and Cotton Ginner, v.50, no.2, Apr.1932, p.7. (Published at 161 Spring St., N.W., Atlanta, Ga.)

Letter describing use of the Segundo machine.

Big business will barter when sales are slow. Oil Miller and Cotton Ginner, v.40, no.2, Apr.1932, p.6-7. (Published at 161 Spring St., N.W., Atlanta, Ga.)

Discusses the exchange of cotton seed for cottonseed products.

Harris, Darwin. Sensitive test for cottonseed oil. Chemist-Analyst, v.21, no.2, Mar.1, 1932, p.15. (Published by J.T. Baker Chemical Co., Phillipsburg, N.J.)

Brief account of test, dependent on color, which is used to detect cottonseed oil in foods or in other oils.

Jamieson, George S. Vegetable fats and oils. The chemistry, production and utilization of vegetable fats and oils for edible, medicinal and technical purposes. New York, Chemical catalog co., inc., 1932. 444 p.

Cotton, cotton seed and oil: p.158-198.

Sampling of cotton seed: p.380.

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